

Tube Evaluation – Coloring the static Measurement Results' Background

(Software Version 10.3.0.0 or higher)

The background of the static measurement results for Ia, S and Ig1 can now be colored with the traffic light colors red, yellow and green. This gives a quick overview of the tube's actual state.

For Ia and S background color switching depends on the percentage of the nominal value. For Ig1 color switching is done by comparing Ig1 to an absolute value given in μA .

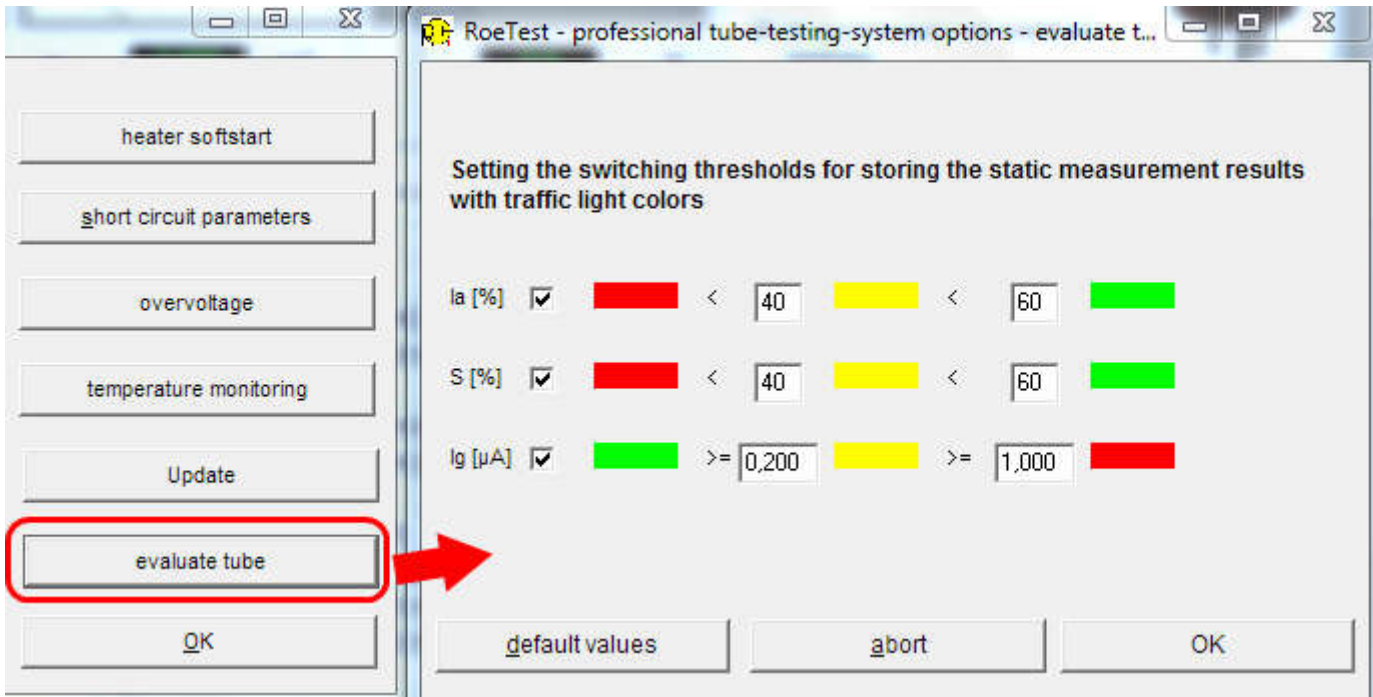
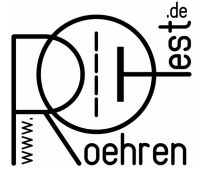
status	heater	testing for shorts	static data	vacuum	curves	remarks
system	1	2	3			
type of tube system	Pentode	-	-			
nominal plate current [mA]	9					
measured plate current [mA]	4,316					
= percent of nominal	48	←				
Nominal screen grid current [mA]	3					
measured screen current [mA]	1,59					
= percent of nominal	53					
transconductance [mA/V]	1,33	←				
at grid voltage change (dUg1) [V]	0,6					
plate current [mA] at + 1/2 dUG1	4,736					
plate current [mA] at - 1/2 dUG1	3,941					
μ	1497					
D of plate in % ($D = 1/\mu$)	0,1					
measured plate current [mA]	4,311					
at plate voltage	175,12					
D G2 [%]	4,55					
measured plate current [mA]	3,731					
at screen voltage	90,3					
Ri [KOhm]	1290,5					
Ig [μA]	0,0239	←				

The color switching thresholds are freely adjustable.

The settings can be changed at <Optionen-> auswerten Röhre> (<Options-> evaluating tube>). These settings also apply to the background-color display of the tube stock database.

RoeTest - das Computer-Röhren-Messgerät -

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The picture above shows the predefined standard values (40%/60%-split according to Funke) as well as empirical values for I_{g1} .

Since RoeTest users had most diverse wishes for the color switching thresholds you now can define the 'correct' switching thresholds according to your own opinion.

If you do not want background coloring remove the coloring check mark(s) for one or all measurement values.

Pressing the button <Standardwerte> (<Standard values>) will restore the predefined settings.